

**Notice of Allowability**

Application No.	Applicant(s)
10/789,040	RAMAN, GOPALAN
Examiner	Art Unit
Brian Goldberg	2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the amendment filed 5/14/07.
2.  The allowed claim(s) is/are 1-23 and 43-57.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some\*    c)  None    of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
    1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.  
(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
    Paper No./Mail Date \_\_\_\_\_.  
Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
    Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
    of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
    Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 1-23 and 43-57 are allowed.
2. The following is an examiner's statement of reasons for allowance: The prior art does not disclose or suggest "wherein the first sidewall is oriented at a first angle to the chamber and the second sidewall is oriented at a second angle to the chamber, wherein the second angle is less than the first angle, wherein the first fluid channel includes a first portion extended along the first peninsula and a second portion extended along the first sidewall, and the second fluid channel includes a first portion extended along the second peninsula and a second portion extended along the second sidewall, and wherein the chamber extends into the second portion of the first fluid channel and the second portion of the second fluid channel" in combination with the remaining claim elements set forth in claim 1 and its dependent claims.
3. Further, the prior art does not disclose or suggest "wherein the first fluid channel includes a first portion extended along the first peninsula and a second portion extended along the first sidewall, and the second fluid channel includes a first portion extended along the second peninsula and a second portion extended along the second sidewall, and wherein the chamber extends into the second portion of the first fluid channel and the second portion of the second fluid channel, and wherein a length of the first portion of the first fluid channel along the first peninsula is substantially parallel with a length of the first portion of the second fluid channel along the second peninsula" in combination with the remaining claim elements set forth in claim 11 and its dependent claims.

4. Also, the prior art does not disclose or suggest "wherein the first fluid channel includes a first portion extended along the first side of the island and a second portion extended along the first chamfered corner of the island, and the second fluid channel includes a first portion extended along the second side of the island and a second portion extended along the second chamfered corner of the island, wherein the chamber extends into the second portion of the first fluid channel and the second portion of the second fluid channel, and wherein a width of the first portion of the first fluid channel along the first side of the island is substantially constant, and a width of the first portion of the second fluid channel along the second side of the island is substantially constant" in combination with the remaining claim elements set forth in claim 13 and its dependent claims.

5. Furthermore, the prior art does not disclose or suggest "wherein the first fluid channel includes a first portion extended along the first peninsula and a second portion extended along the first sidewall, and the second fluid channel includes a first portion extended along the second peninsula and a second portion extended along the second sidewall, and wherein the chamber extends into the second portion of the first fluid channel and the second portion of the second fluid channel...wherein the first sidewall as provided along the second portion of the first fluid channel is oriented substantially parallel with the first chamfered corner as provided along the first fluid channel, and the second sidewall as provided along the second portion of the second fluid channel is oriented substantially parallel with the second chamfered corner as provided along the

second fluid channel" in combination with the remaining claim elements set forth in claim 21 and its dependent claims.

6. Finally, the prior art does not disclose or suggest "wherein the first fluid channel includes a first portion extended along the first side of the island and a second portion extended along the first chamfered corner of the island, and the second fluid channel includes a first portion extended along the second side of the island and a second portion extended along the second chamfered corner of the island, wherein the chamber extends into the second portion of the first fluid channel and the second portion of the second fluid channel, and wherein the first peninsula as provided along the first portion of the first fluid channel is oriented substantially parallel with the first side of the island as provided along the first portion of the first fluid channel, and the second peninsula as provided along the first portion of the second fluid channel is oriented substantially parallel with the second side of the island as provided along the first portion of the second fluid channel" in combination with the remaining claim elements set forth in claim 53 and its dependent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Goldberg whose telephone number is 571-272-

2728. The examiner can normally be reached on Monday through Friday, 9AM-5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on 571-272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian Goldberg  
AU 2861  
June 21, 2007

  
MATTHEW LUU  
SUPERVISORY PATENT EXAMINER